

Figure 1

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1

pel B

MET LYS TYR LEU LEU PRO THR ALA ALA ALA GLY LEU
 AAGCTTGCAATTCCTATTTCAAGGACAGTCATAA ATG AAA TAC CTA TTG CCT ACG GCA GCC GCT GGA TTG
 TTCGACGTACGTTTAAGATAAAGTTCCCTCTGTCTAGTATT TAC TTT ATG GAT AAC GGA TGC CGT CGG CGA CCT AAC
 Hin dIII

77

Sfi I

Pst I

Not I

LEU LEU LEU ALA ALA GLN PRO ALA MET ALA GLU VAL GLN LEU GLN *** ** ALA ALA ALA
 TTA TTA CTC GCG GCC CAG CCG GCC ATG GCC GAG GTG CAA CTG CAG TAA TAG GCG GCC GCA
 AAT AAT GAG CGC CGG GTC GGC CGG TAC CGG GTC CAC GTC GAC GTC ATT ATC CGC CGG CGT

137

GLY GLY GLY GLY SER MET GLU SER ALA LYS GLU THR ARG TYR CYS ALA VAL CYS ASN ASP
 GGG GGA GGA GGG TCC ATG GAA TCT GCC AAG GAG ACT CGC TAC TGT GCA GTG TGC AAT GAC
 CCC CCT CCT CCC AGG TAC CTT AGA CGG TTC CTC TGA GCG ATG ACA CGT CAC ACG TTA CTG

197

TYR ALA SER GLY TYR HIS TYR GLY VAL TRP SER CYS GLU GLY CYS LYS ALA PHE PHE LYS
 TAT GCT TCA GGC TAC CAT TAT GGA GTC TGG TCC TGT GAG GGC TGC AAG GCC TTC TTC AAG
 ATA CGA AGT CCG ATG GTA ATA CCT CAG ACC AGG ACA CTC CCG ACG TTC CGG AAG AAG TTC

257

ARG SER ILE GLN GLY HIS ASN ASP TYR MET CYS PRO ALA THR ASN GLN CYS THR ILE ASP
 AGA AGT ATT CAA GGA CAT AAC GAC TAT ATG TGT CCA GCC ACC AAC CAG TGC ACC ATT GAT
 TCT TCA TAA GTT CCT GTA TTG CTG ATA TAC ACA GGT CGG TGG TTG GTC ACG TGG TAA CTA

317

Oestrogen receptor DBD

LYS ASN ARG ARG LYS SER CYS GLN ALA CYS ARG LEU ARG LYS CYS TYR GLU VAL GLY MET
 AAA AAC AGG AGG AAG AGC TGC CAG GCC TGC CGG CTC CGT AAA TGC TAC GAA GTG GGA ATG
 TTT TTG TCC TCC TTC TCG ACG GTC CGG ACG GCC GAG GCA TTT ACG ATG CTT CAC CCT TAC

377

MET LYS GLY GLY ILE ARG LYS ASP ARG ARG GLY GLY ARG MET LEU LYS HIS LYS ARG GLN
 ATG AAA GGT GGG ATA CGA AAA GAC CGA AGA GGA GGG AGA ATG TTG AAA CAC AAG CGC CAG
 TAC TTT CCA CCC TAT GCT TTT CTG GCT TCT CCT CCC TCT TAC AAC TTT GTG TTC GCG GTC

437

ARG ASP ASP GLY GLU GLY ARG GLY GLU VAL GLY SER *** **

HRE

Eco RI

AGA GAT GAT GGG GAG GGC AGG GGT GAA GTG GGG TCT TGA TAA TCAGGTCAGAGTGACCTGAGCTAAAATAACACATTCAG AATTC
 TCT CTA CTA CCC CTC CCG TCC CCA CTT CAC CCC AGA ACT ATT AGTCCAGTCTCACTGGACTCGATTTTATGTGTGAAGTC TTAAG

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Figure 2

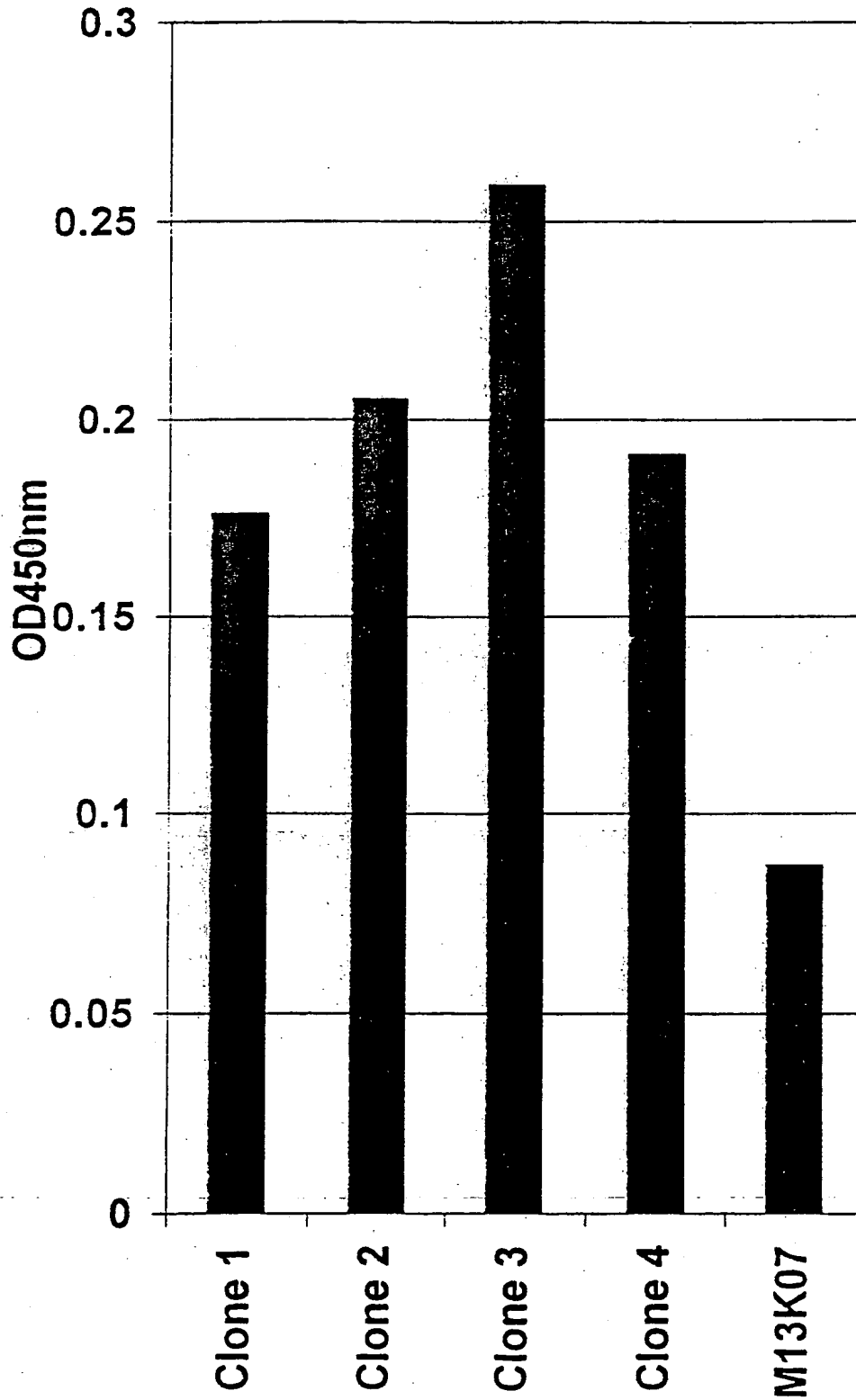


Figure 3

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Human Igk constant region

K R T V A A P S V
AAACGAACTGTGGCTGCACCATCTGTC

Clone #2

M A↓Q P T T R P G Q G T R L D I K R T V A A P S V
ATGGCCCAGCCCACCACGCGTCCGGGCCAAGGGACACGACTGGACATTAAACGAACTGTGGCTGCACCATCTGTC

Clone #3

M A↓Q S H H A S G G G T K V E I K R T V A A P S V
ATGGCCCAGTCCCACCACGCGTCCGGCGGAGGGACCAAGGTGGAGATCAAACGAACTGTGGCTGCACCATCTGTC

Human Igk constant region

F I F P P S D E Q L K S G T A S V V C L L N N F Y
TTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTAT

Clone #2

F I F P P S D E Q L K S G T A S V V C L L N N F Y
TTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTAT

Clone #3

F I F P P S D E Q L K S G T A S V V C L L N N F Y
TTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTAT

Figure 4

4/9 pel B

1Hin dIII

MET LYS TYR LEU LEU PRO THR ALA ALA

AAGCTTGCAT GCAAATTCTA TTTCAAGGAG ACAGTCATAA ATG AAA TAC CTA TTG CCT ACG GCA GCC

TTCGAACGTA CGTTTAAGAT AAAGTTCCTC TGTCAGTATT TAC TTT ATG GAT AAC GGA TGC CGT CGG

68

Sfi I

Pst I

ALA GLY LEU LEU LEU LEU ALA ALA GLN PRO ALA MET ALA GLU VAL GLN LEU GLN *** **

GCT GGA TTG TTA TTA CTC GCG GCC CAG CCG GCC ATG GCC GAG GTG CAA CTG CAG TAA TAG

CGA CCT AAC AAT AAT GAG CGC CGG GTC GGC CGG TAC CGG CTC CAC GTT GAC GTC ATT ATC

128 Not I

ALA ALA ALA GLY GLY GLY GLY SER MET GLU SER ALA LYS GLU THR ARG TYR CYS ALA VAL

GCG GCC GCA GGG GGA GGA GGG TCC ATG GAA TCT GCC AAG GAG ACT CGC TAC TGT GCA GTG

CGC CGG CGT CCC CCT CCT CCC AGG TAC CTT AGA CGG TTC CTC TGA GCG ATG ACA CGT CAC

188

CYS ASN ASP TYR ALA SER GLY TYR HIS TYR GLY VAL TRP SER CYS GLU GLY CYS LYS ALA

TGC AAT GAC TAT GCT TCA GGC TAC CAT TAT GGA GTC TGG TCC TGT GAG GGC TGC AAG GCC

ACG TTA CTG ATA CGA AGT CCG ATG GTA ATA CCT CAG ACC AGG ACA CTC CCG ACG TTC CGG

248

PHE PHE LYS ARG SER ILE GLN GLY HIS ASN ASP TYR MET CYS PRO ALA THR ASN GLN CYS

TTC TTC AAG AGA AGT ATT CAA GGA CAT AAC GAC TAT ATG TGT CCA GCC ACC AAC CAG TGC

AAG AAG TTC TCT TCA TAA GTT CCT GTA TTG CTG ATA TAC ACA GGT CGG TGG TTG GTC ACG

308

THR ILE ASP LYS ASN ARG ARG LYS SER CYS GLN ALA CYS ARG LEU ARG LYS CYS TYR GLU

ACC ATT GAT AAA AAC AGG AGG AAG AGC TGC CAG GCC TGC CGG CTC CGT AAA TGC TAC GAA

TGG TAA CTA TTT TTG TCC TCC TTC TCG ACG GTC CGG ACG GCC GAG GCA TTT ACG ATG CTT

368

VAL GLY MET MET LYS GLY GLY ILE ARG LYS ASP ARG ARG GLY GLY ARG MET LEU LYS HIS

GTG GGA ATG ATG AAA GGT GGG ATA CGA AAA GAC CGA AGA GGA GGG AGA ATG TTG AAA CAC

CAC CCT TAC TAC TTT CCA CCC TAT GCT TTT CTG GCT TCT CCT CCC TCT TAC AAC TTT GTG

428

LYS ARG GLN ARG ASP ASP GLY GLU GLY ARG GLY GLU VAL GLY SER Ter Ter HRE 1

AAG CGC CAG AGA GAT GAT GGG GAG GGC AGG GGT GAA GTG GGG TCT TGA TAA TCAGGTCAGAGT

TTC GCG GTC TCT CTA CTA CCC CTC CCG TCC CCA CTT CAC CCC AGA ACT ATT AGTCCAGTCTCA

491

HRE 1

Sal I

HRE 2

Eco RI

GACCTGAGCTAAAATAACACATTCAG GTCGAC TTGGGTCAGTCTGACCGGGACAAAGTTAATGTAACCTC GAATTC

CTGGACTCGATTTTATTGTGTAAGTC CAGCTG AACCCAGTCAGACTGGCCCTGTTTCAATTACATTGGAG CTTAAG

Figure 5

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pel B

1 *Hin*DIII

AAGCTTGCAT GCAAATTCTA TTTCAAGGAG ACAGTCATAA ATG AAA TAC CTA TTG CCT ACG GCA GCC
 TTCGAACGTA CGTTTAAGAT AAAGTTCCTC TGTCAGTATT TAC TTT ATG GAT AAC GGA TGC CGT CGG

68

ALA GLY LEU LEU LEU LEU ALA ALA GLN PRO ALA MET ALA GLU MET GLU SER ALA LYS GLU
 GCT GGA TTG TTA TTA CTC GCG GCC CAG CCG GCA ATG GCC GAG ATG GAA TCT GCC AAG GAG
 CGA CCT AAC AAT AAT GAG CGC CGG GTC GGC CGT TAC CGG CTC TAC CTT AGA CGG TTC CTC

128

THR ARG TYR CYS ALA VAL CYS ASN ASP TYR ALA SER GLY TYR HIS TYR GLY VAL TRP SER
 ACT CGC TAC TGT GCA GTG TGC AAT GAC TAT GCT TCA GGC TAC CAT TAT GGA GTC TGG TCC
 TGA GCG ATG ACA CGT CAC ACG TTA CTG ATA CGA AGT CCG ATG GTA ATA CCT CAG ACC AGG

188

CYS GLU GLY CYS LYS ALA PHE PHE LYS ARG SER ILE GLN GLY HIS ASN ASP TYR MET CYS
 TGT GAG GGC TGC AAG GCC TTC TTC AAG AGA AGT ATT CAA GGA CAT AAC GAC TAT ATG TGT
 ACA CTC CCG ACG TTC CGG AAG AAG TTC TCT TCA TAA GTT CCT GTA TTG CTG ATA TAC ACA

248

PRO ALA THR ASN GLN CYS THR ILE ASP LYS ASN ARG ARG LYS SER CYS GLN ALA CYS ARG
 CCA GCC ACC AAC CAG TGC ACC ATT GAT AAA AAC AGG AGG AAG AGC TGC CAG GCC TGC CGG
 GGT CGG TGG TTG GTC ACG TGG TAA CTA TTT TTG TCC TCC TTC TCG ACG GTC CGG ACG GCC

308

LEU ARG LYS CYS TYR GLU VAL GLY MET MET LYS GLY GLY ILE ARG LYS ASP ARG ARG GLY
 CTC CGT AAA TGC TAC GAA GTG GGA ATG ATG AAA GGT GGG ATA CGA AAA GAC CGA AGA GGA
 GAG GCA TTT ACG ATG CTT CAC CCT TAC TAC TTT CCA CCC TAT GCT TTT CTG GCT TCT CCT

368

GLY ARG MET LEU LYS HIS LYS ARG GLN ARG ASP ASP GLY GLU GLY ARG GLY GLU VAL GLY
 GGG AGA ATG TTG AAA CAC AAG CGC CAG AGA GAT GAT GGG GAG GGC AGG GGT GAA GTG GGG
 CCC TCT TAC AAC TTT GTG TTC GCG GTC TCT CTA CTA CCC CTC CCG TCC CCA CTT CAC CCC

428

*Sfi*I*Pst*I*Not*I

SER	GLY	GLY	GLY	GLY	SER	ALA	GLN	PRO	ALA	LEU	LEU	GLN	LEU	ALA	ALA	ALA	TER
TCT	GGG	GGA	GGA	GGG	TCG	GCC	CAG	CCG	GCC	CTC	CTG	CAG	CTG	GCG	GCC	GCA	TAACTGATTG
AGA	CCC	CCT	CCT	CCC	AGC	CGG	GTC	GGC	CGG	GAG	GAC	GTC	GAC	CGC	CGG	CGT	ATTGACTAAC

489 *Sal*I*Eco*RI

AGTCGAC	TTG	GGTCAGTCTG	ACCGGGACAA	AGTTAATGTA	ACCTC	GAATTC
TCAGCTGAAC	CCAGTCAGAC	TGGCCCTGTT	TCAATTACAT	TGGAG	CTTAAG	

HRE

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Figure 6

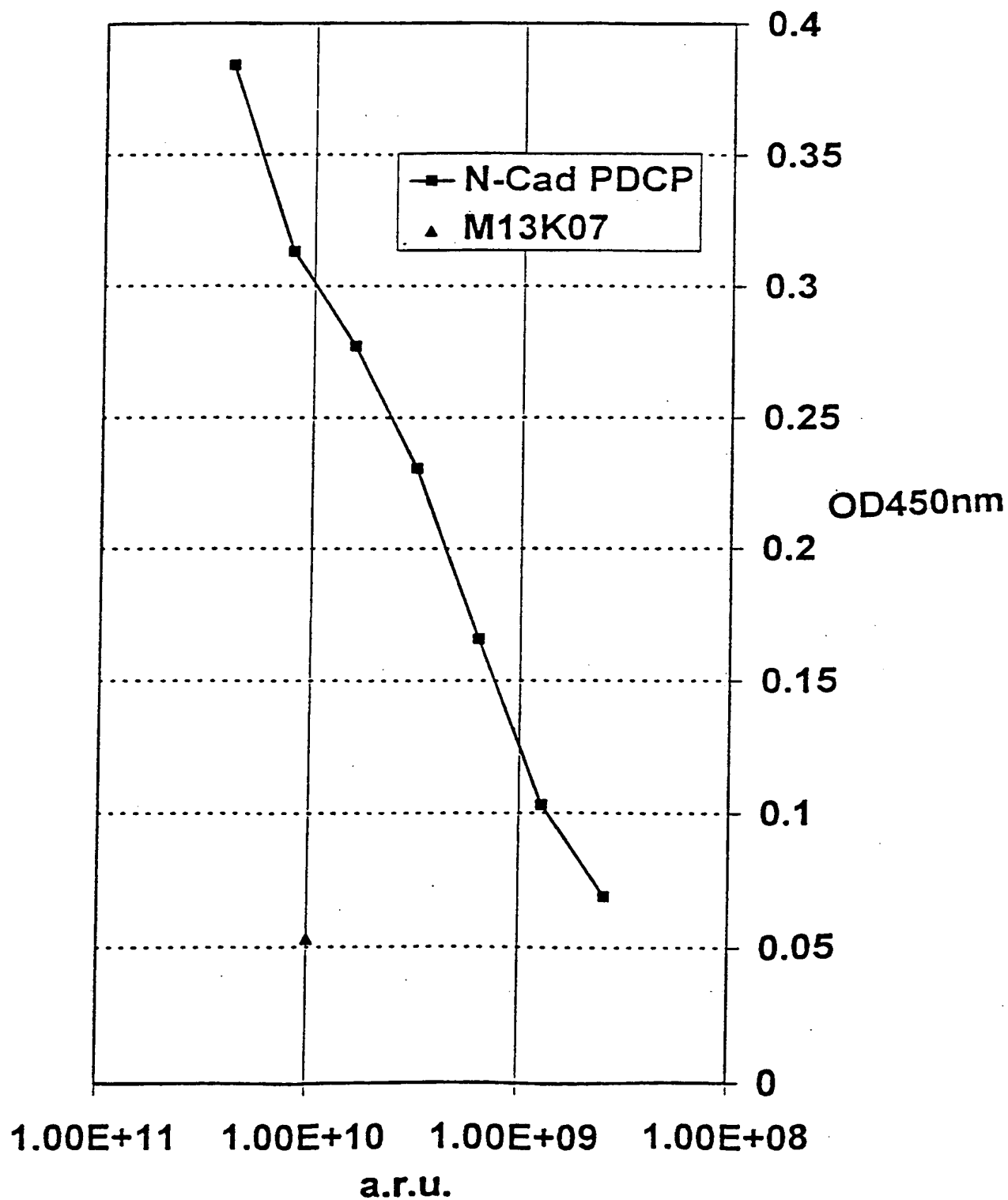


Figure 7

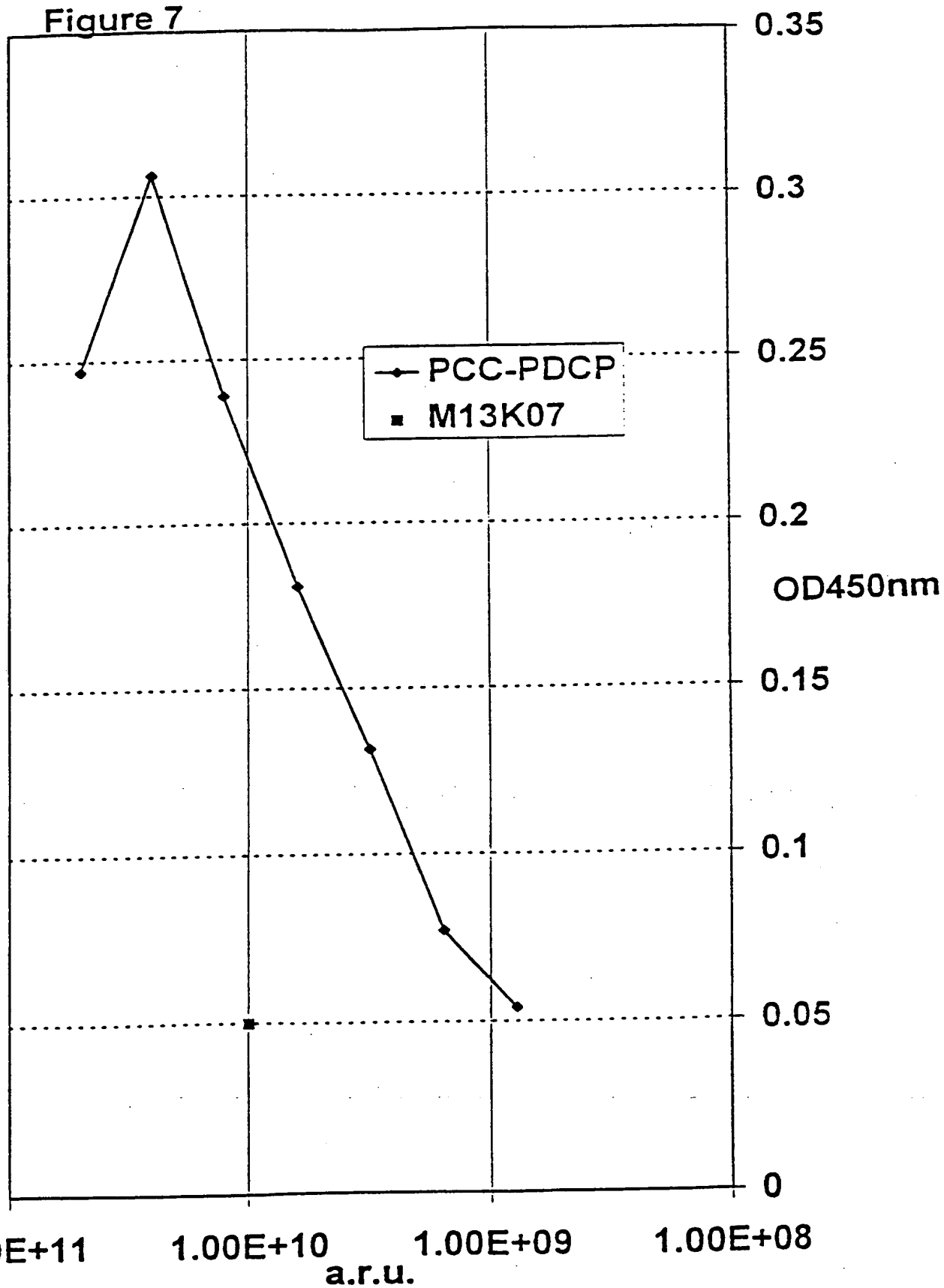
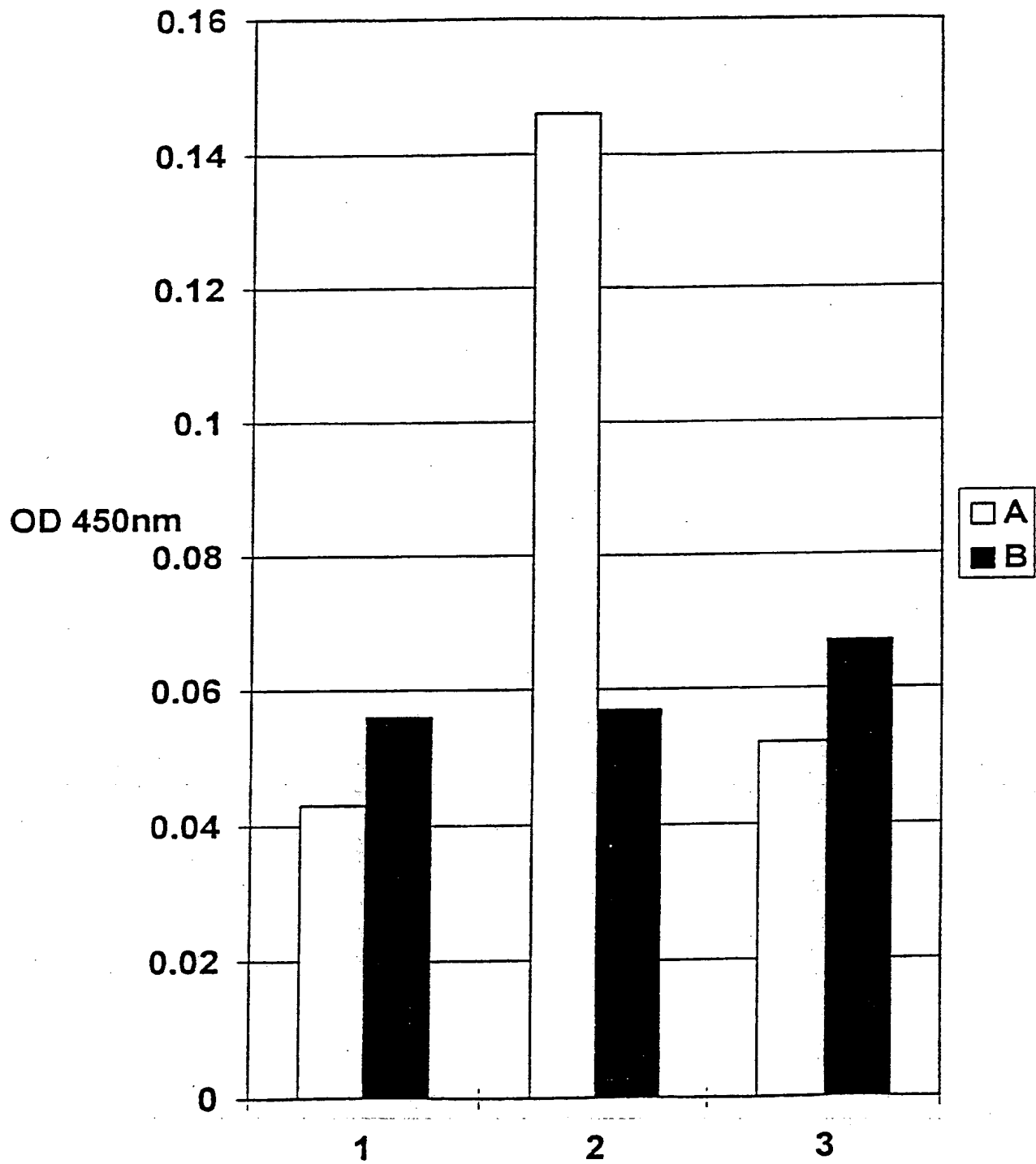


Figure 8

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HEAVY CHAIN

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Figure 9

Q V Q L Q Q S G G G V V Q P G R S L
 CAGGTACAGCTGCAGCAGTCAGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTG
 GTCCATGTTCGACGTCGTCAGTCCCCCTCCGCACCAGGTCCGACCCTCCAGGGAC
 R L S C A A S G F P F S T Y G M H W
 AGACTCTCCTGTGCAGCCTCGGGATTCCCCCTTTAGTACTTATGGCATGCACCTGG
 TCTGAGAGGACACGTCGGAGCCCTAAGGGGAAATCATGAATACCGTACGTGACC
 R Q A V P G K G L E W V A V I S Y D
 CGCCAGGCTGTCCCAGGCAAGGGGCTGGAGTGGGTGGCAGTTATATCATATGAT
 GCGGTCCGACAGGGTCCGTTCCCCGACCTCACCCACCGTCAATATAGTATACTA
 G S N K Y Y A D S V K G R F T I S R
 GGAAGTAATAATACTACGCAGACTCCGTGAAGGGCCGATTACCATCTCCAGA
 CCTTCATTATTTATGATGCGTCTGAGGCACTTCCCGGCTAAGTGGTAGAGGTCT
 D N S K N T L Y L Q M N S L R A E D
 GACAATTCCAAGAACACGTTGTATCTGCAAATGAACAGCCTGAGAGCTGAGGAC
 CTGTTAAGGTTCTTGTGCAACATAGACGTTTACTTGTTCGGACTCTCGACTCCTG
 T A V Y Y C A R D L D P T R Y S S G
 ACGGCTGTGTATTACTGTGCGAGAGGATTAGACCCCAAGGTATAGCAGTGCC
 TGCCGACACATAATGACACGCTCTCTAAATCTGGGGTGGTCCATATCGTCACCG
 W D T D Y W G Q G H L V T V S S
 TGGGACACTGACTACTGGGGCCAGGGGCACCTGGTCACTGTCTCCTCA
 ACCCTGTGACTGATGACCCCGGTCCCCGTGGACCAGTGACAGAGGAGT

LIGHT CHAIN

E T T L T Q S P G T L S L S P G E R
 GAAACGACACTCACGCAGTCTCCAGGCACCCTGTCTTTGTCTCCGGGGGAAAGA
 CTTTGCTGTGAGTGCGTCAGAGGTCCGTGGGACAGAAACAGAGGCCCCCTTTCT
 A T L S C R A S Q N I G S S S L A W
 GCCACCCTCTCCTGCAGGGCCAGTCAGAATATTGGCAGCAGCTCCTTAGCCTGG
 CGGTGGGAGAGGACGTCCCGGTCACTCTTATAACCGTCGTTCGAGGAATCGGACC
 Y Q Q K P G Q A P R L L I Y G A S T
 TACCAACAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGGTGCATCCACC
 ATGGTTGTCTTTGGACCGGTCCGAGGGTCCGAGGAGTAGATAACCACGTAGGTGG
 R A T G F S G S G S G T Q F T L T I
 AGGGCCACTGGTTTTCACTGGCAGTGGGTGAGGACACAATTCATCTCACCATC
 TCCCGGTGACCAAAGTCACCGTCACCCAGTCCCTGTGTTAAGTGAGAGTGGTAG
 I P A R S S L Q S E D F A V Y Y C Q
 ATCCCAGCCAGGAGCAGCCTGCAGTCTGAAGATTTTGCAGTTTATTACTGTGAG
 TAGGGTCCGTCTCGTCGGACGTCAGACTTCTAAAACGTCAAATAATGACAGTC
 Q Y N F W P F T F G P G T K L E I K
 CAGTATAATTTCTGGCCATTCATTTTGGCCCTGGGACCAAGCTGGAGATCAAA
 GTCATATTAAAGACCGGTAAGTGAAAACCGGGACCCTGGTTCGACCTCTAGTTT

R
 CGT
 GCA